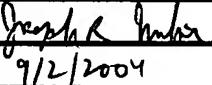


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TRANSMITTAL <i>(to be used for all correspondence after initial filing)</i> SEP 07 2004 USPTO		Application Number	10/701,655
		Filing Date	November 4, 2003
		First Named Inventor	Kesheng Wu
		Art Unit	2819
		Examiner Name	Khai M. Nguyen
		Total Number of Pages in This Submission	1
		Attorney Docket Number	IB-1852

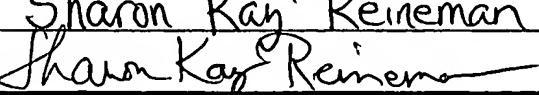
ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Dupl. Fee Transmittal for pymt. to deposit account 120690; and Return Postcard
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	<input type="checkbox"/> Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Joseph R. Milner; Lawrence Berkeley National Laboratory	
Signature		
Date	9/2/2004	

CERTIFICATE OF TRANSMISSION/MAILING

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Typed or printed name	Sharon Kay Reineman	
Signature		Date 9/2/04

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SEP 07 2004
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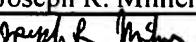
Small Entity claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT	(\$)	180.00
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Complete if Known

Application Number	10/701,655
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First Named Inventor	Kesheng Wu
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METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)																																																																																																																																							
<input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Deposit Account: Deposit Account Number 120690 Deposit Account Name Lawrence Berkeley National Laboratory				3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> </tr> </thead> <tbody> <tr> <td>Fee Code (\$)</td> <td>Fee Code (\$)</td> </tr> <tr> <td>1051 130</td> <td>2051 65</td> <td>Surcharge - late filing fee or oath</td> <td>Fee Paid</td> </tr> <tr> <td>1052 50</td> <td>2052 25</td> <td>Surcharge - late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>1053 130</td> <td>1053 130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>1812 2,520</td> <td>1812 2,520</td> <td>For filing a request for ex parte reexamination</td> <td></td> </tr> <tr> <td>1804 920*</td> <td>1804 920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>1805 1,840*</td> <td>1805 1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>1251 110</td> <td>2251 55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>1252 420</td> <td>2252 210</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>1253 950</td> <td>2253 475</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>1254 1,480</td> <td>2254 740</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>1255 2,010</td> <td>2255 1,005</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>1401 330</td> <td>2401 165</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>1402 330</td> <td>2402 165</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>1403 290</td> <td>2403 145</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>1451 1,510</td> <td>1451 1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>1452 110</td> <td>2452 55</td> <td>Petition to revive - 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** or number previously paid, if greater. For Reissues, see above																																																																																																																																											

SUBMITTED BY				(Complete if applicable)	
Name (Print/Type)	Joseph R. Milner	Registration No. (Attorney/Agent)	42,896	Telephone	510-486-4672
Signature				Date	September 2, 2004

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Substitute for form 1449A/PTO

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Application Number	10/701,655
Filing Date	11/04/2003
First Named Inventor	Kesheng Wu
Art Unit	2819
Examiner Name	Khai M. Nguyen
Attorney Docket Number	IB-1852

SEP 07 2004

(Use as many sheets as necessary)

Sheet 1

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

1

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Application Number	10/701,655
Filing Date	November 4, 2003
First Named Inventor	WU, Kesheng, et. al.
Art Unit	2819
Examiner Name	Khai M. Nguyen
Attorney Docket Number	IB-1852

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. ¹	T ²
	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	WU, Kesheng et al.; Notes on Design and Implementation of Compressed Bit Vectors, Sept. 27, 2001; p. 1-42	
	WU, Kesheng et al.; Compressed bitmap indices for efficient query processing; LBNL-47807, (2001), p.1-16	
	WU, Kesheng et al.; A Performance Comparison of bitmap indexes; CIKM 2001, Atlanta, GA; 3 pgs.	
	WU, Kesheng, et al.; Compressing Bitmap Indexes for Faster Search Operations; (2002); 10 pgs.	
	STOCKINGER, Kurt; WU, Kesheng; and SHOSHANI, Arie; Strategies for Processing ad hoc Queries on Large Data Warehouses; DOLAP'02; November 4-9, 2002; 8 pgs.	
	WU, Kesheng; KOEGLER, Wendy; CHEN, Jacqueline; and SHOSHANI, Arie; Using Bitmap Index for Interactive Exploration of Large Datasets; (2003); 10 pgs.	
	WU, Kesheng; ZHANG, Wei-Ming; SIM, Alexander; GU, Junmin; and SHOSHANI, Arie; Grid Collector: An Event Catalog With Automated File Management; (2003); 5 pgs.	
	WU, Kesheng; OTOO, Ekow; and SHOSHANI, Arie; On the Performance of Bitmap Indices for High Cardinality Attributes; LBNL-54673; March 5, 2004	

Examiner Signature	Date Considered
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²Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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